

Title: POLARIZED LIGHT COLOR FILTER AND VIDEO PROJECTOR COMPRISING THE SAME

Inventor(s): Shinichiro TAJIRI

Serial No.: Unknown

Docket No.: Furusawa 62

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Fig. 1 PRIOR ART

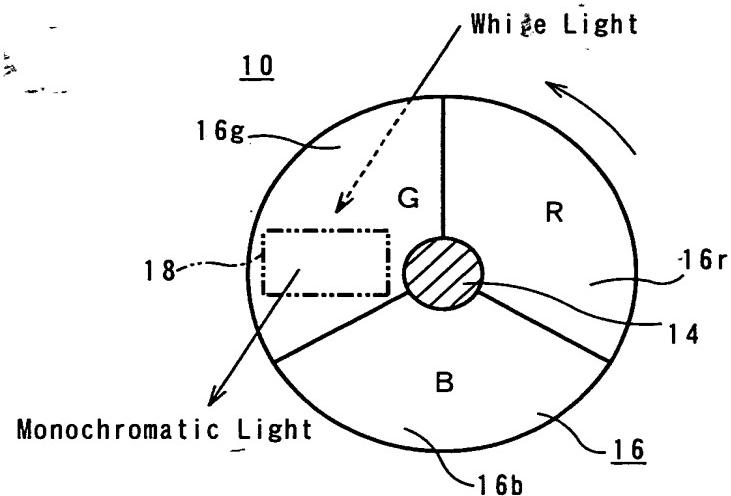
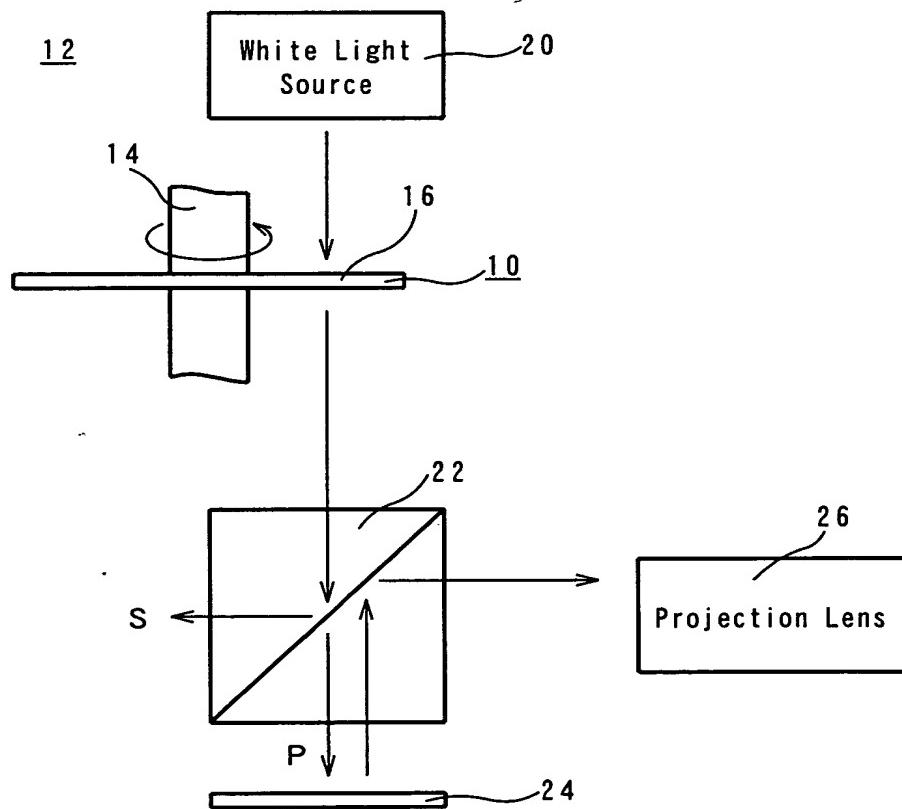


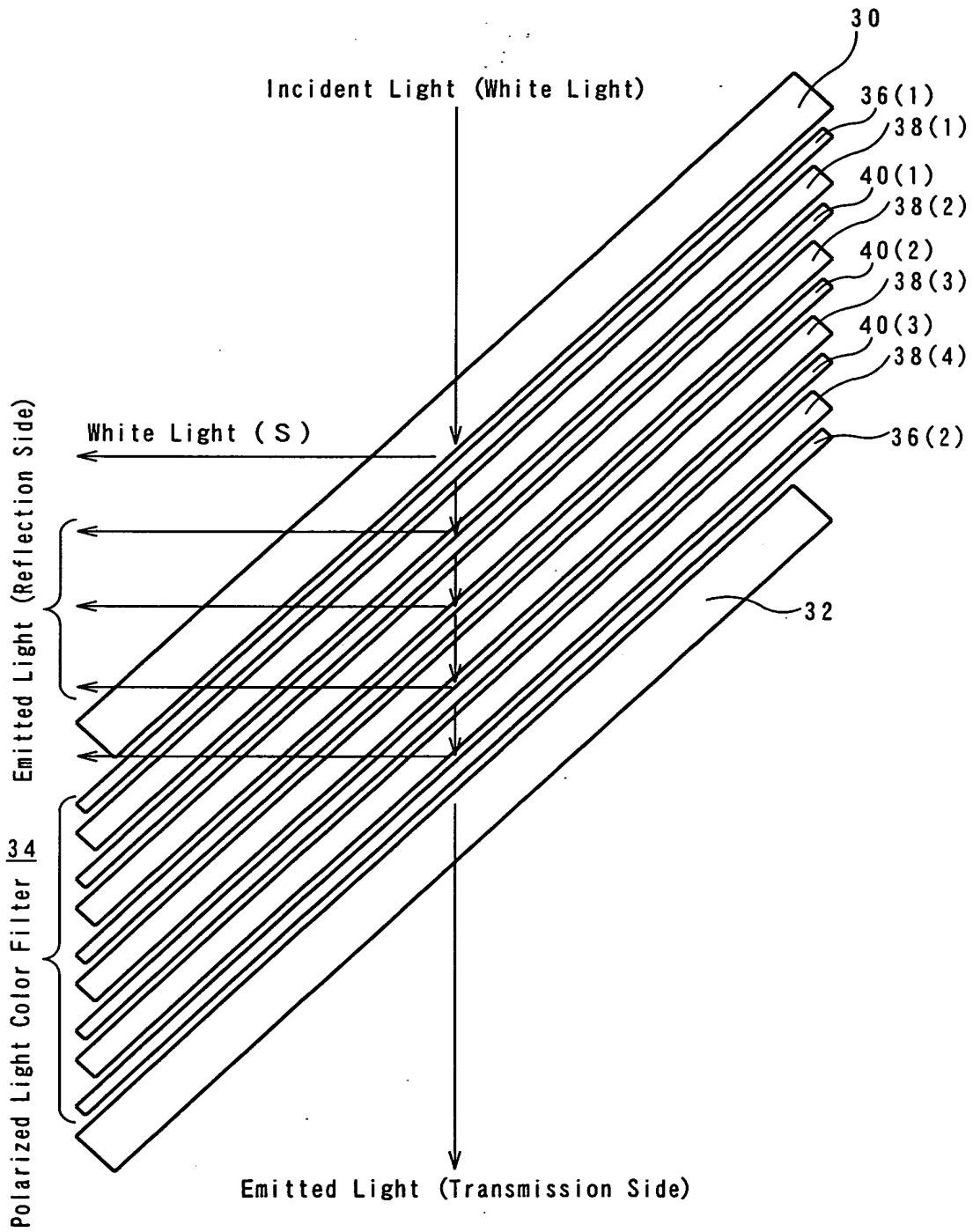
Fig. 2 PRIOR ART



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Fig. 3



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Fig. 4

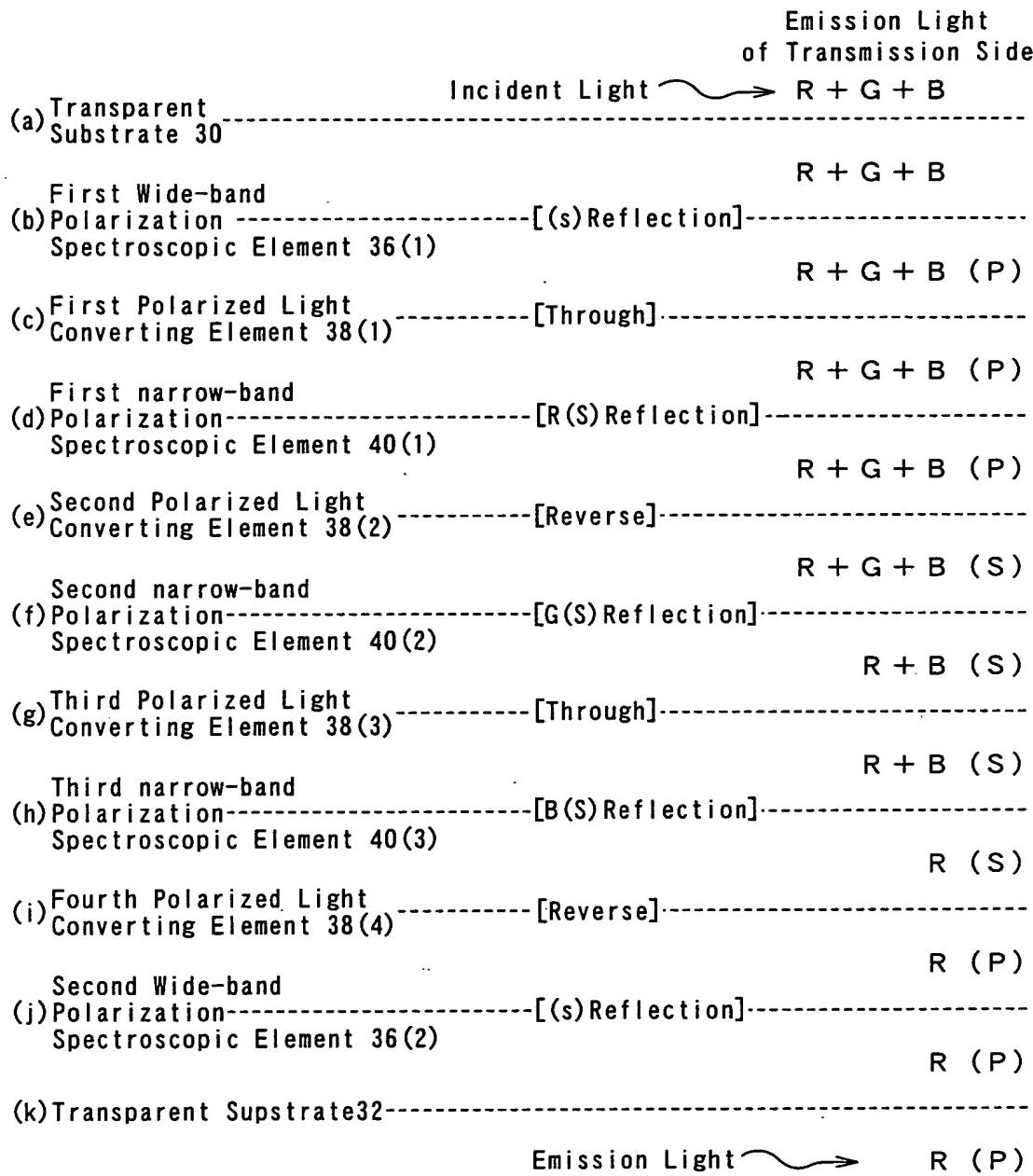
In case of the non-polarized light incident to
polarized light color filter 34

First Polarized Light Converting Element (R)	Second Polarized Light Converting Element (G)	Third Polarized Light Converting Element (B)	Third Narrow-band Polarizaiton Spectroscopic Element	Emission Light from Filter (Transmission Side)
Through	Through	Through	R + G + B (P)	R + G + B (P)
Through	Through	Reverse	R + G (S)	R + G (P)
Through	Reverse	Through	R (S)	R (P)
Reverse	Through	Through	Absent	Absent
Through	Reverse	Reverse	R + B (P)	R + B (P)
Reverse	Reverse	Through	G + B (P)	G + B (P)
Reverse	Through	Reverse	B (P)	B (P)
Reverse	Reverse	Reverse	G (S)	G (P)

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Fig. 5



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Fig. 6

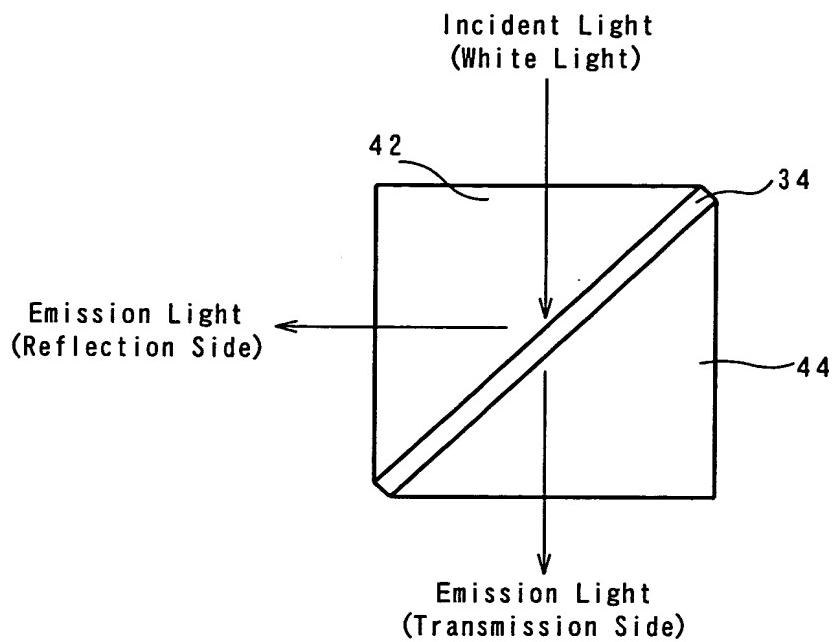
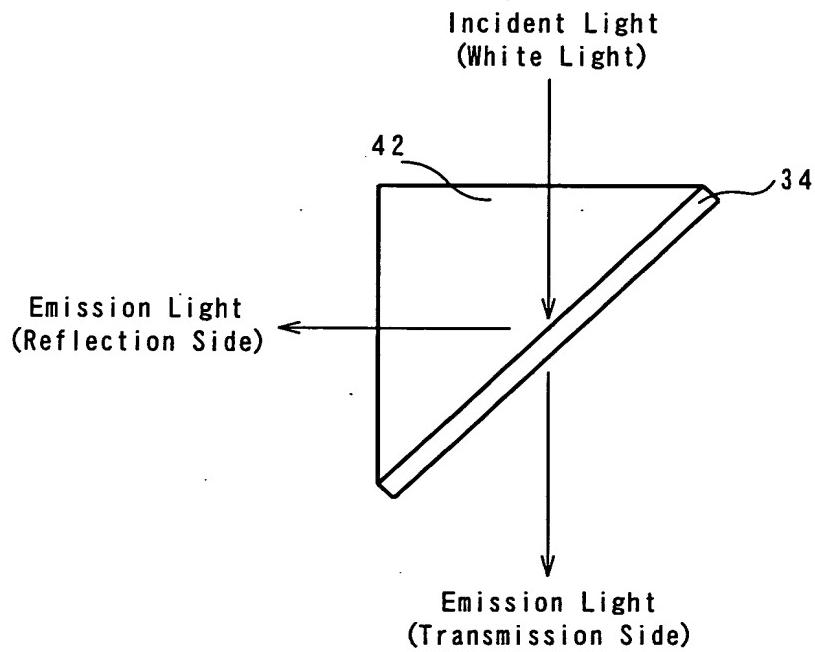


Fig. 7

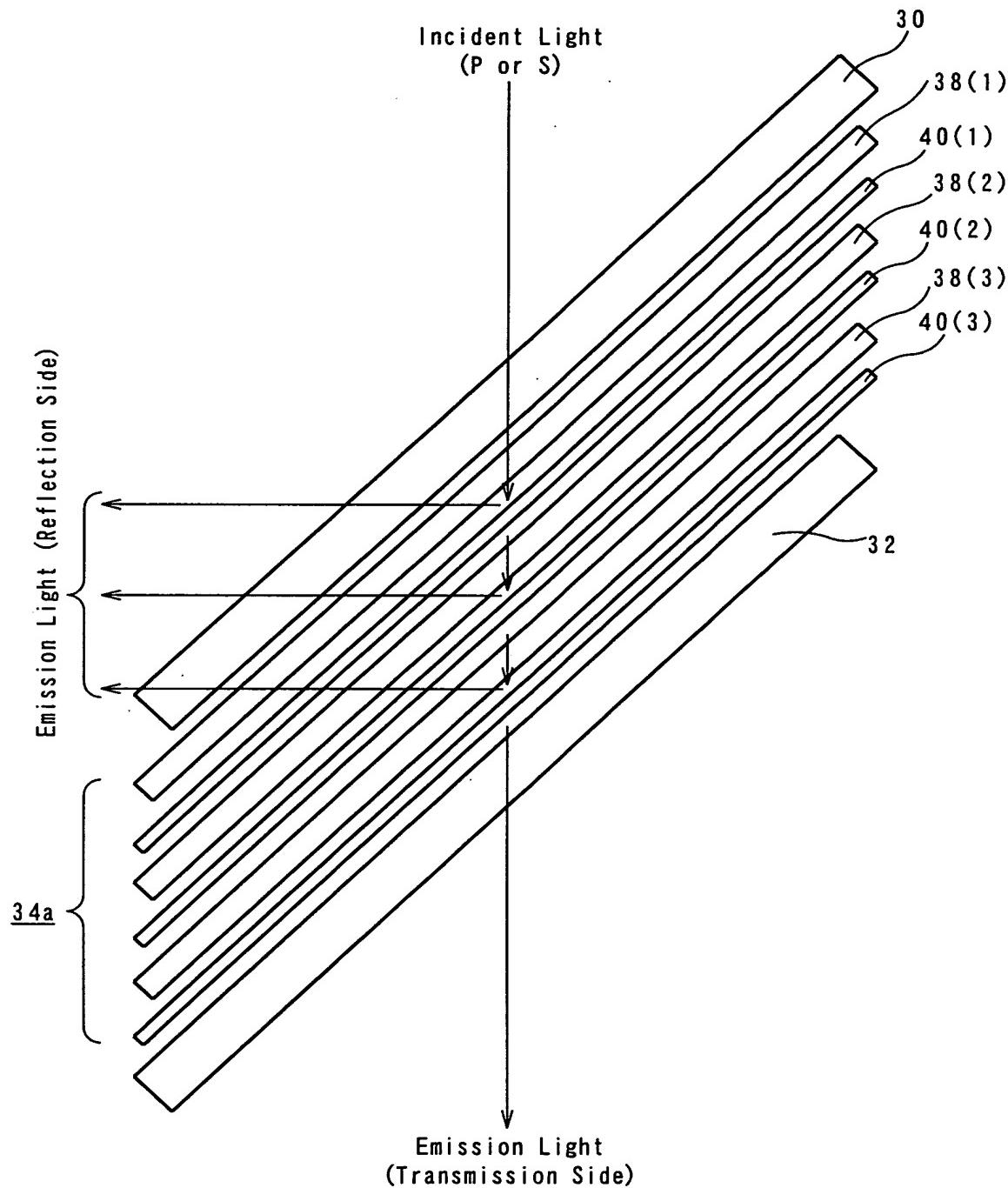


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Fig. 8



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Fig. 9

In case of the P-polarized light incident to
polarized light color filter 34a

First Polarized Light Converting Element (R)	Second Polarized Light Converting Element (G)	Third Polarized Light Converting Element (B)	Emission Light from Filter (Reflection Side)	Emission Light from Filter (Transmission Side)
Through	Through	Through	Absent	R + G + B (P)
Through	Through	Reverse	B (P)	R + G (S)
Through	Reverse	Through	R + G (P)	R (S)
Reverse	Through	Through	R + G + B (P)	Absent
Through	Reverse	Reverse	G (P)	R + B (P)
Reverse	Reverse	Through	R (P)	G + B (P)
Reverse	Through	Reverse	R + G (P)	B (P)
Reverse	Reverse	Reverse	R + B (P)	G (S)

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Fig. 10

In case of the S-polarized light incident to
polarized light color filter 34a

First Polarized Light Converting Element (R)	Second Polarized Light Converting Element (G)	Third Polarized Light Converting Element (B)	Emission Light from Filter (Reflection Side)	Emission Light from Filter
Through	Through	Through	R + G + B (S)	Absent
Through	Through	Reverse	R + G (S)	B (P)
Through	Reverse	Through	R (S)	G + B (P)
Reverse	Through	Through	Absent	R + G + B (P)
Through	Reverse	Reverse	R + B (S)	G (S)
Reverse	Reverse	Through	G + B (S)	R (S)
Reverse	Through	Reverse	B (S)	R + G (S)
Reverse	Reverse	Reverse	G (S)	R + B (P)

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Fig. 11

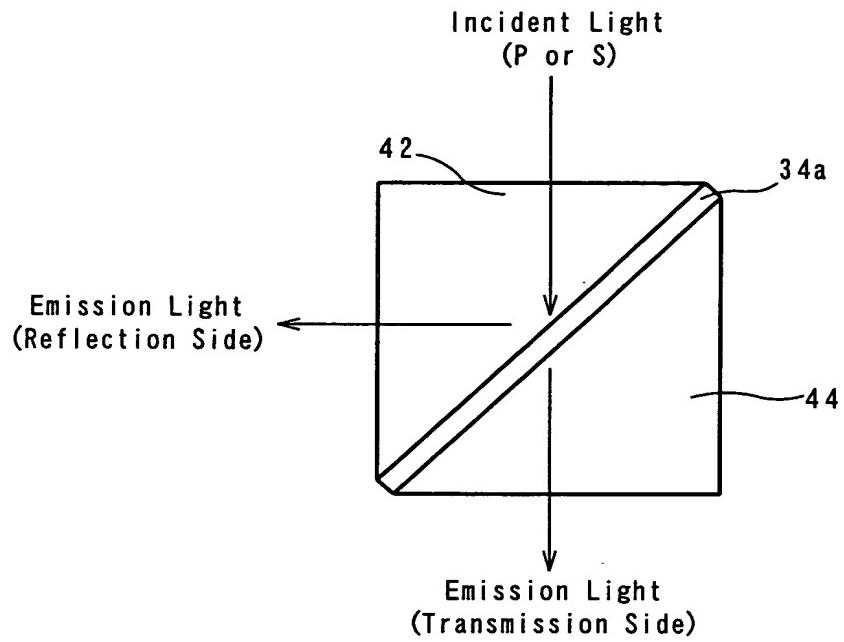
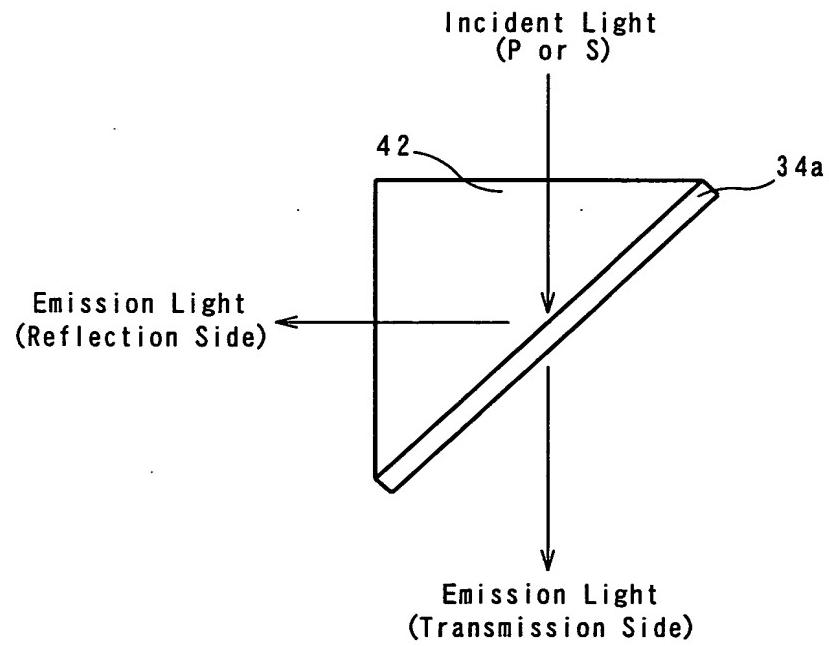


Fig. 12

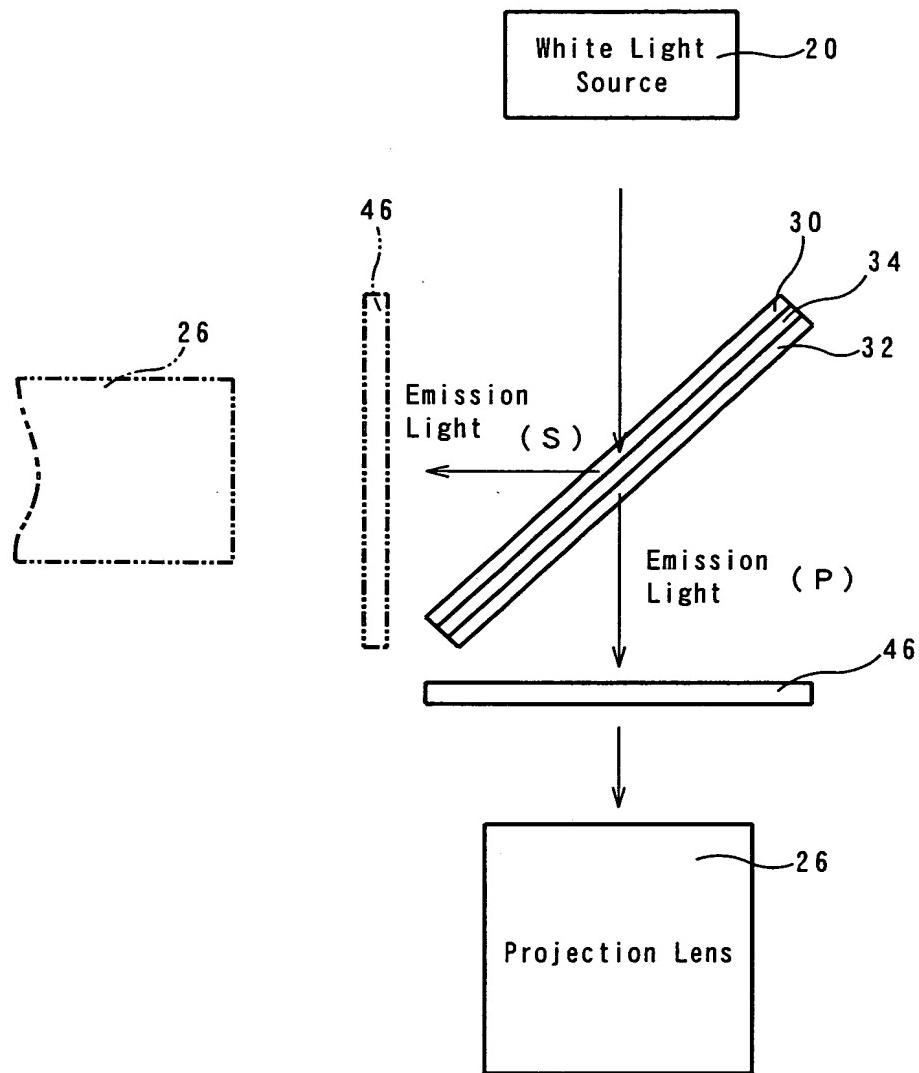


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Fig. 13



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Fig. 14

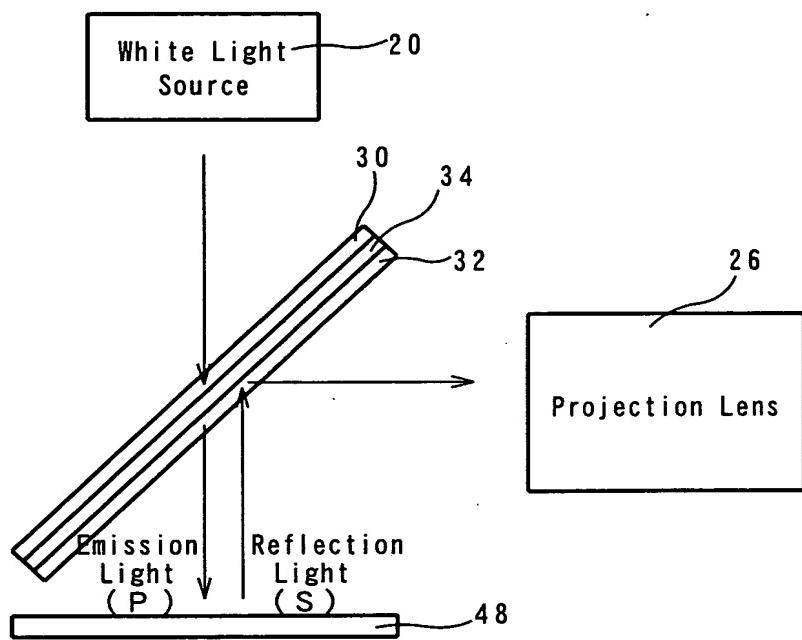
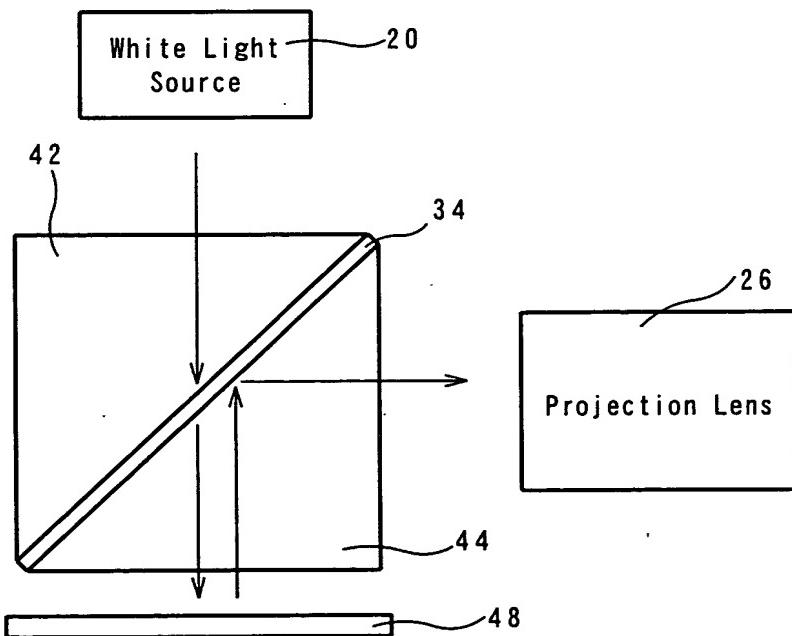


Fig. 15



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Fig. 16

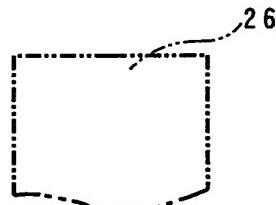
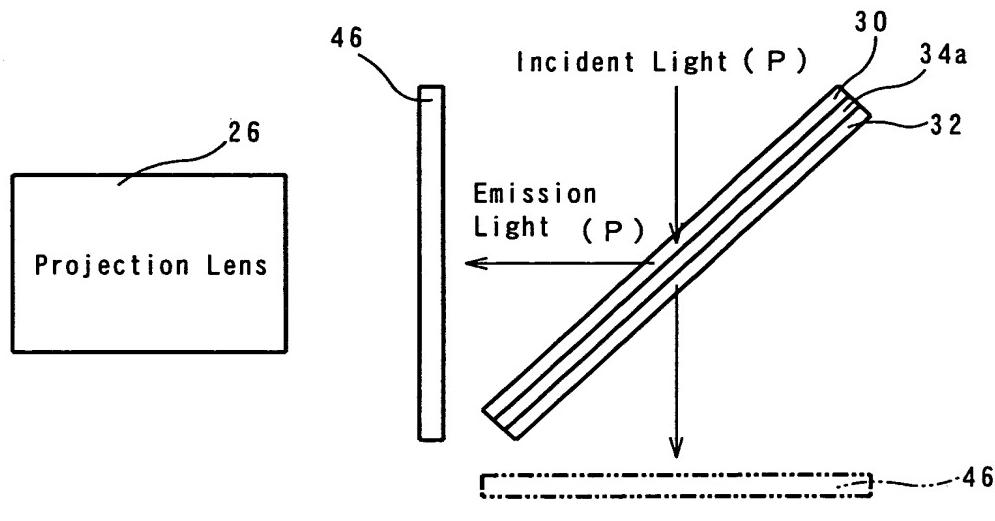
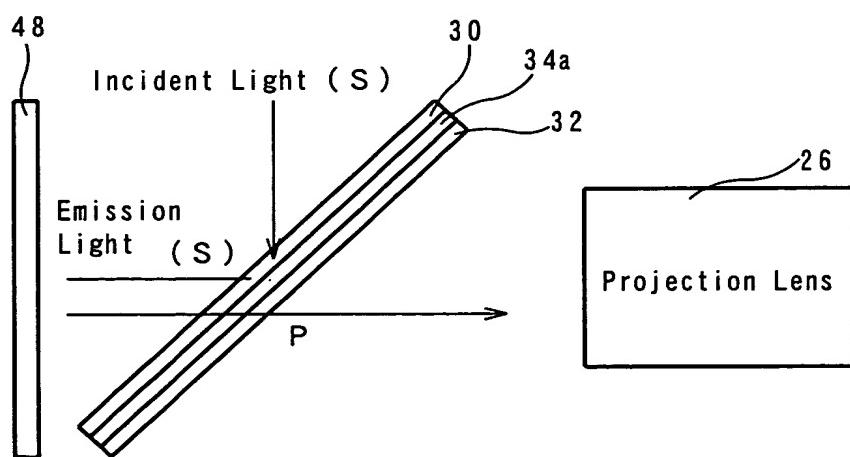


Fig. 17



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Fig. 18

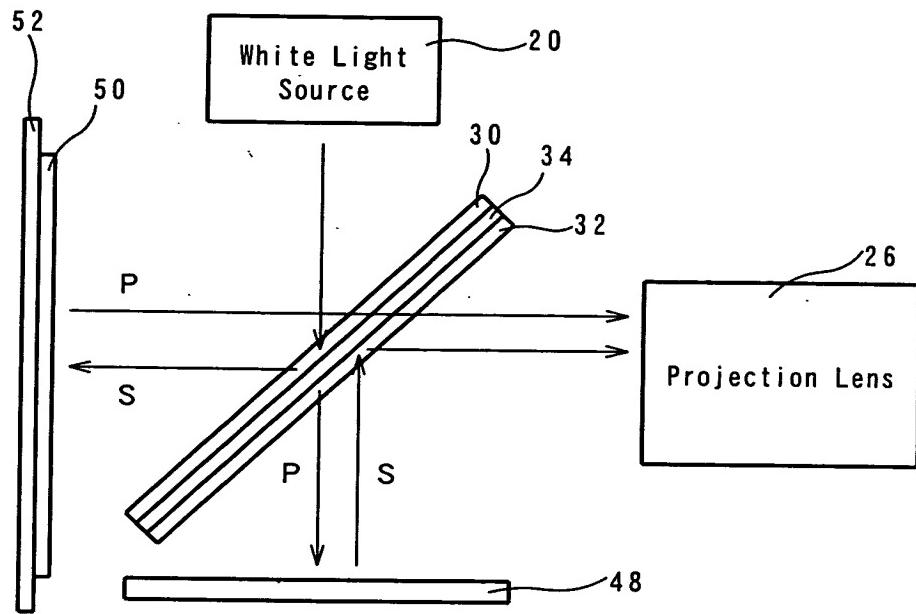


Fig. 19

